

Code Breaking Solutions

During Slideshow

Dancing Men: What did zero say to eight? Nice Belt.
Morse Code: It should say "Morse Code".

Worksheet 1: For Task 1

Dancing men: Where do bad shapes get sent? Prism.
Pigpen: Why is six afraid? Because seven ate nine!
Morse Code: Why did the obtuse angle go to the beach? It was over ninety degrees!

Worksheet 2: For Task 2

Plain Text	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
Cipher Text	U	X	Y	P	Q	M	Z	I	R	W	N	T	E	A	V	B	S	J	C	F	H	G	D	L	K	O

The Proud Oak Tree

The oak said to the reed that grew by the river, "It is no wonder that you make such a sorrowful moaning, for you are so weak that the little wren is a burden for you, and the lightest breeze must seem like a storm wind. Now look at me! No storm has ever been able to bow my head. You will be much safer if you grow close to my side so that I may shelter you from the wind that is now playing with my leaves."

"Do not worry about me," said the reed, "I have less reason to fear the wind than you have. I bow myself, but I never break. He who laughs last, laughs best!"

That night there came a fearful hurricane. The oak stood tall. The reed bowed itself before the blast. The wind grew more furious, and, uprooting the proud oak, flung it on the ground.

When the morning came there stood the slender reed, glittering with dewdrops, and softly swaying in the breeze.

Worksheet 3: Harder code for Task 3

Using the Pigpen coding:

QVI QVSII TFQQT I WDQQISBTJ WSCQVISR

QVISI AISI CGUI QVSII TFQQT I WDQQISBTJ WSCQVISR, CGI AVFQI, CGI SIK, HGK CGI JITTCA. QVIJ YTHJIK FG QVI RDGRVFGI, HGK KHGUIK HOCGL QVI BTCAISR FG QVI LHSKIG, HGK QVIJ GINIS LSIA QFSIK WIUHDRI QVIJ AISI RC VHYYJ.

CGI KHJ QVISI UHOI H VIHNI SHFG HGK FQ AIQ QVIFS AFGLR. QVIJ BTIA HAHJ VCOI WDQ AVIG QVIJ LCQ QVISI QVIJ BCDGK QVI KCCS TCUIPK HGK QVI PIJ LCGI. RC QVIJ VHK QC RQHJ CDQ CB KCCSR FG QVI SHFG, HGK QVIJ LSIA AIQQIS HGK AIQQIS.

QVIJ BTIA QC QVI SIK HGK JITTCA RQSFYIK QDTFY HGK RHFK, "BSFIGK QDTFY, AFTT JCD CYIG JCDS BTCAISUDY HGK TIQ DR FG QFTT QVI RQCSO FR CNIS?"

QVI QDTFY HGRAISIK, "QVI SIK HGK JITTCA WDQQISBTFIR OHJ IGQIS WIUHDRI QVIJ HSI TFPI OI WDQ QVI AVFQI CGI OHJ GCQ UCOI FG."

WDQ QVI SIK HGK JITTCA WDQQISBTFIR RHFK, "FB CDS AVFQI WSCQVIS OHJ GCQ BFGK RVITQIS FG JCDS BTCAISUDY QVIG AI AFTT RQHJ CDQRFKI FG QVI SHFG AFQV VFO."

FQ SHFGIK VHSKIS HGK QVI YCCS TFQQT I WDQQISBTFIR LSIA AIQQIS HGK AIQQIS RC QVIJ BTIA QC QVI AVFQI TFTJ HGK RHFK, "LCCK TFTJ AFTT JCD CYIG JCDS WDK H TFQQT I RC AI OHJ USIY FG CDQ CB QVI SHFG?"

QVI TFTJ HGRAISIK, "QVI AVFQI WDQQISBTJ OHJ UCOI FG WIUHDRI VI FR TFPI OI WDQ QVI SIK HGK JITTCA CGIR ODRQ RQHJ CDQRFKI FG QVI RQCSO."

QVIG QVI TFQQT I AVFQI WDQQISBTJ RHFK, "FB JCD AFTT GCQ SIUFNI OJ SIK HGK JITTCA WSCQVISR QVIG F AFTT RQHJ CDQ FG QVI SHFG AFQV QVIO. AI ACDTK SHQVIS WI AIQ QVHG WI YHSQIK."

RC QVI QVSII TFQQT I WDQQISBT FIR BTIA HAHJ.

WDQ QVI RDG AVC AHR WIVFGK H UTCDK VIHSK FQ HTT, HGK VI PGIA AVHQ LCCK TFQQT I WSCQVISR QVI WDQQISBT FIR AISI HGK VCA QVIJ VHK VITK QCLIQVIS FG RYFQI CB QVI AIQ. RC VI YDRVIK VFR BHUI QVSCDLV QVI UTCDKR HGK UVHRIK HAHJ QVI SHFG RVFGGFG L WSFLVQTJ CG QVI LHSKIG.

VI KSFQI QVI AFGLR CB QVI QVSII TFQQT I WDQQISBT FIR HGK AHQSOIK QVIFS WCKFIR. QVIJ UIHRIK QC RCSSCA HGK KHGVIK HOCGL QVI BTCAISR QFTT INIGFGL. QVIG QVIJ BTIA HAHJ VCOI HGK BCDGK QVI KCCS AFKI CYIG.

And then the frequency analysis:

Plain Text	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
Cipher Text	H	W	U	K	I	B	L	V	F	Z	P	T	O	G	C	Y	M	S	R	Q	D	N	A	E	J	X

The Three Little Butterfly Brothers

There were once three little butterfly brothers, one white, one red, and one yellow. They played in the sunshine, and danced among the flowers in the garden, and they never grew tired because they were so happy.

One day there came a heavy rain and it wet their wings. They flew away home but when they got there they found the door locked and the key gone. So they had to stay out of doors in the rain, and they grew wetter and wetter.

They flew to the red and yellow striped tulip and said, "Friend Tulip, will you open your flowercup and let us in till the storm is over?"

The tulip answered, "The red and yellow butterflies may enter because they are like me but the white one may not come in."

But the red and yellow butterflies said, "If our white brother may not find shelter in your flowercup then we will stay outside in the rain with him."

It rained harder and the poor little butterflies grew wetter and wetter so they flew to the white lily and said, "Good Lily will you open your bud a little so we may creep in out of the rain?"

The lily answered, "The white butterfly may come in because he is like me but the red and yellow ones must stay outside in the storm."

Then the little white butterfly said, "If you will not receive my red and yellow brothers then I will stay out in the rain with them. We would rather be wet than be parted."

So the three little butterflies flew away.

But the sun who was behind a cloud heard it all, and he knew what good little brothers the butterflies were and how they had held together in spite of the wet. So he pushed his face through the clouds and chased away the rain shinning brightly on the garden.

He dried the wings of the three little butterflies and warmed their bodies. They ceased to sorrow and danced among the flowers till evening. Then they flew away home and found the door wide open.
